

USE OF PARVOVIRUS CAPSID PARTICLES IN THE INHIBITION OF CELL PROLIFERATION AND MIGRATION

ABSTRACT OF THE DISCLOSURE

5 The invention described herein relates to the discovery of methods and
compositions for the inhibition of growth and/or migration of cells that have a
receptor that interacts with a parvovirus B19 capsid or fragment thereof (e.g., a P
antigen containing cell), including but not limited to, cells of hematopoietic
origin and endothelial cells. More specifically, parvovirus capsid particles or
10 fragments of parvovirus capsid proteins are used to manufacture medicaments
that can be administered to a subject to inhibit hematopoietic progenitor cell
growth (e.g., prior to stem cell transplantation), endothelial cell growth, (e.g., as
an anti-tumorigenesis treatment or to prevent restenosis or fibrotic build up
following prosthetic implantation), or to prevent disorders that involve the
15 abnormal proliferation of cells that have the P antigen (e.g., Polycythemia Vera).

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